

Date: Tue, 21 Dec 93 07:04:04 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #1490  
To: Info-Hams

Info-Hams Digest                      Tue, 21 Dec 93                      Volume 93 : Issue 1490

Today's Topics:

    "Re: Long-play recording"  
    Arizona repeater info needed  
    ARLB117 FCC CALL SIGN UPDATE  
    Calculating SWR  
    Ham Radio Clip Art  
    Ham ticket

How to find the answers to frequently-asked questions about Ham Radio  
    scanner use in vehicles  
    Tokyo Hy-Power's 3-band SSB/CW Handheld  
    what was the telnet address for the ham/call database??

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Mon, 20 Dec 1993 02:06:07 GMT  
From: netcomsv!netcom.com!fmitch@decwrl.dec.com  
Subject: "Re: Long-play recording"  
To: info-hams@ucsd.edu

Robert Carpenter (rc@cmr.ncsl.NIST.GOV) wrote:

: I've been making unattended HiFi recordings of up to 8-hour duration for  
: some 8 years now. The secret is VHS HiFi. Just plug your audio into the  
: external audio input (eliminate the TVI) and you're on your way. The  
: cheaper VHS HiFi VCRs have automatic volume control on the audio, I got one  
: with manual audio gain because my application is musical recording. I  
: normally use T-120 cassettes at the 6-hour speed (\$7.97 for 3 at Giant), but

: use T-160 (\$9.99 for 4 at Price Club) to get 8 hours.

: 73, Bob w3otc@amsat.org

i use an old rca vcr whose video head is bad... it has a 7 day timer...  
i used it to capture weather satellite audio during the times i  
couldn't be at the computer... the specs on the audio channel  
are fantastic... cd quality... my unit has audio agc and manual  
input level adjustment for each audio channel... check with a  
vcr repair shop... they usually have a few old units lying  
around whose video heads are bad consequently they are not  
worth fixing... i got my unit for free that way...

mitch, wa4osr

--

-----  
fmitch@netcom.com

Felton "Mitch" Mitchell, WA4OSR in Mobile, Alabama USA

205-342-7259 home, 205-476-4100 work, 205-476-0465 FAX

co-sysop for W4IAX bbs running fbb ... sysop for WA4OSR DXCluster in Mobile..  
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-----  
Date: Wed, 15 Dec 1993 02:36:01 GMT

From: swrinde!cs.utexas.edu!utnut!torn!nott!cunews!freenet.carleton.ca!

FreeNet.Carleton.CA!al602@network.ucsd.edu

Subject: Arizona repeater info needed

To: info-hams@ucsd.edu

In a previous article, paulc@fc.hp.com (Paul Christofanelli) says:

>Hello all,

>

>...I've heard of the Northlink system, and ZIA. Do either of  
>these get into Phoenix? It appears from the repeater directory that Zia  
>does, but I don't think it covers northern Arizona. On the other hand,  
>Northlink might not get into Phoenix.

>

ZIA-link does get into Phoenix. However, it is not always "up." Lately,  
it seems to be down more often, at least here in Arizona. ZIA covers the  
southwest from California through Arizona and New Mexico to West Texas.  
It seems pieces are up but not necessarily all the links.

I'm afraid I can't help you with Northlink.

--

Regards, | Reply to: al602@freenet.carleton.ca  
Jim. | Ham Call: WA9QYC  
Tucson, AZ |

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Date: Tue, 21 Dec 1993 02:48:44 GMT  
From: netcomsv!netcom.com!marchbg@decwrl.dec.com  
Subject: ARLB117 FCC CALL SIGN UPDATE  
To: info-hams@ucsd.edu

SB QST @ ARL \$ARLB117  
ARLB117 FCC CALL SIGN UPDATE

ZCZC AG59  
QST de W1AW  
ARRL Bulletin 117 ARLB117  
>From ARRL Headquarters  
Newington CT December 20, 1993  
To all radio amateurs

SB QST ARL ARLB117  
ARLB117 FCC CALL SIGN UPDATE

FCC ISSUED CALL SIGN UPDATE

The following is a list of the FCC's most recently issued call signs  
as of December 1.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0PO	KG0KD	N0ZLM	KB0LMX
1	AA1IB	KD1SQ	N1QWR	KB1BEQ
2	AA2QQ	KF2SX	N2XFU	KB2QQJ
3	AA3GP	KE3LH	N3QZL	KB3AZK
4	AD4NS	KR4IY	++	KE4HYT
5	AB5RK	KJ5TG	++	KC5EIK
6	AB6YW	KN6VX	++	KE6DOF
7	AB7AI	KI7TW	++	KB7ZRB
8	AA8NJ	KG8FM	++	KB8QOW
9	AA9JM	KF9SP	N9VPC	KB9IWA
Hawaii	++	AH6NE	WH6QL	WH6CRB
Alaska	++	AL7PL	WL7OW	WL7CHJ
Virgin Is.	WP2D	KP2CC	NP2GU	WP2AHU
Puerto Rico	++	KP4VZ	++	WP4MLZ

++All call signs in this group have been issued in this area.

NNNN

/EX

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Marc Grant

marchbg@netcom.com

-----  
Date: 14 Dec 93 19:58:21 GMT

From: sdd.hp.com!col.hp.com!fc.hp.com!myers@hplabs.hp.com

Subject: Calculating SWR

To: info-hams@ucsd.edu

Ronald D. Erickson (rerickso@cwis.unomaha.edu) wrote:

> SWR is really the same as power factor. It is either  
> voltage leading or lagging current in RF transmission  
> situations. Sometimes hams use a 52 or 50-ohm dummy load  
> resistor to verify how close to perfect they have tuned  
> their antenna on low power. The idea is to try to stay below  
> 2 to 1 or 2.5 to 1 Voltage Standing Wave Ratio.

> 73,

> Ron

> AK0N

> rerickso@cwis.unomaha.edu

Completely, totally, absolutely, INCORRECT. But thanks for playing!

How could SWR and PF be the same? SWR *cannot* be less than 1.000:1, while PF *cannot* be greater than 1.000. Further, your assertion tha SWR is somehow related to voltage vs. current phase would imply that it is impossible to acheive other than a perfect 1:1 SWR with a purely resistive load, which is most definitely not the case.

I'd go ahead and post the real definition of SWR, but I see that this has already been done MUCH earlier.

Bob Myers	KC0EW	Hewlett-Packard Co.	Opinions expressed here are not
		Advanced Systems Div.	those of my employer or any other
myers@fc.hp.com		Fort Collins, Colorado	sentient life-form on this planet.

-----  
Date: Sun, 19 Dec 93 20:37:30 MST

From: usc!howland.reston.ans.net!gatech!asuvax!ennews!stat!david@network.ucsd.edu

Subject: Ham Radio Clip Art  
To: info-hams@ucsd.edu

I am in the process of creating my own QSL cards. Does anyone know of anyplace to obtain ham radio related clip art?

david wb7tpy

---

Editor, HICNet Medical Newsletter  
Internet: david@stat.com  
Bitnet : ATW1H@ASUACAD

FAX: +1 (602) 451-6135

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Date: Fri, 17 Dec 93 23:09:11  
From: usc!howland.reston.ans.net!usenet.ins.cwru.edu!ukma!widener!  
netnews.upenn.edu!iat.holonet.net!hofbbs!artie.uberti@network.ucsd.edu  
Subject: Ham ticket  
To: info-hams@ucsd.edu

DOES ANYONE OUT THERE KNOW IF FCC HAS STOPPED PROCESSING LICENSES. I AM STILL  
WAITING SINCE 11/9/93 FOR MY TICKET TO ARRIVE AND I AM GROWING IMPATIENT.  
ALL REPLIES WELCOME!!!  
73

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Date: 21 Dec 93 02:44:05 GMT  
From: ogicse!cs.uoregon.edu!sgiblab!rtech!amdahl!thunder!ikluft@network.ucsd.edu  
Subject: How to find the answers to frequently-asked questions about Ham Radio  
To: info-hams@ucsd.edu

Posted-By: auto-faq 3.1.1.4  
Archive-name: ham-faq-ptr

How to find the Rec.radio.amateur.misc Frequently Asked Questions list

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This article will tell you how to find the answers to frequently-asked Questions (FAQ) from rec.radio.amateur.misc. The FAQ articles are posted on the 7th of each month. This article is posted on the 14th, 21st, and 28th of every month as a reminder of where to find the FAQ.

The FAQ articles are intended to summarize some common questions on the rec.radio.amateur.misc newsgroup and Info-Hams mail list as well as to help beginners get started.

Besides the monthly posting, the FAQ is always available via anonymous FTP and from e-mail servers. This article contains instructions for obtaining a copy of the FAQ. It also contains the table of contents from the FAQ so that you know which questions are covered by it.

Please provide a copy of the FAQ to any new or soon-to-be Hams you know.

Regular FAQ postings can help save network bandwidth and maintain a good signal-to-noise ratio in the newsgroup. However, they can't do it alone - you, the reader, have to use them. If you are a new user, please print and review the FAQ articles and look at the instructions in the news.newusers newsgroup before posting any articles. If you are an experienced user, please help by refraining from answering frequently-asked questions on the newsgroup if they are already answered by the FAQ articles. Instead, send e-mail to the user who asked the question. (It will be helpful if you include the part of the FAQ that answers their question, but not the whole thing.)

--How to obtain a current copy of the FAQ-----

There are 3 ways to obtain a copy of the FAQ.

- 1) NetNews
- 2) Anonymous FTP
- 3) An Electronic Mail Server

Option #1: NetNews

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If you are familiar enough with NetNews to look through previous articles on your system, Option #1 above may be the easiest for you. The FAQ is posted so that it should not expire from your site's news spool until the next one is posted. Unfortunately, some news administrators do not honor the expiration dates meant to preserve the FAQ.

Look in rec.radio.amateur.misc, rec.radio.info, rec.answers, or news.answers. If the FAQ has expired at your site, try Option #2 (and ask your news administrator to honor expiration dates for articles cross-posted to news.answers if he/she can.)

Option #2: Anonymous FTP

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Anonymous FTP uses the File Transfer Protocol. It is only available to sites which are directly connected to the Internet. If you don't know how to use FTP and can't find a friend to help you, continue to Option #3. If your site is not connected to the Internet, you should also continue to Option #3.

The following sites have copies of the FAQ:

site name & address	path to FAQ articles
-----	-----
ftp.amdahl.com	pub/radio/amateur/faq.[1-3].Z

	located in western USA, FAQ updated daily
ftp.cs.buffalo.edu	pub/ham-radio/faq_ham_[1-3]
	located in eastern USA, FAQ updated monthly
rtfm.mit.edu	pub/usenet/news.answers/radio/ham-radio/faq/part*
	located in eastern USA, FAQ updated monthly
	contains news.answers archive - most UseNet FAQs are here
grivel.une.edu.au	pub/ham-radio/buffalo/ham-radio/faq_ham_[1-3]
	located in Australia, FAQ updated monthly
	(Ham files mirrored from buffalo/funet/ucsd daily)
nic.funet.fi	pub/ham/info/faq_ham_[1-3]
	located in Finland, FAQ updated monthly

Remember, when connecting to the remote system, use the login name of "anonymous" and, as a courtesy to the site administrators, your e-mail address for the password.

### Option #3: Electronic Mail Server

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 If you can't use Options 1 or 2, your only remaining option is electronic mail. You can retrieve a copy of the FAQ by sending a message to  
 mail-server@rtfm.mit.edu

The body of your mail will contain a command for the mail server software. To get all of the FAQ (consisting of 70K of e-mail in 3 parts), place the following in the first line of your message:  
 send usenet/news.answers/radio/ham-radio/faq/\*

Leave out the subject of your message because the mail server will ignore it.

--- begin sample mail message ---  
 To: mail-server@rtfm.mit.edu  
 From: me@here.org  
 Date: Mon Aug 14 22:27:33 PDT 1995

send usenet/news.answers/radio/ham-radio/faq/\*  
 --- end sample mail message ---

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--Submitting changes for the FAQ-----

If you have comments or updates for the FAQ, send e-mail to  
hamradio-faq@amdahl.com

This will send mail to all the people on the FAQ editorial review group.

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Date: Fri, 17 Dec 93 23:09:09

From: usc!howland.reston.ans.net!usenet.ins.cwru.edu!ukma!widener!  
netnews.upenn.edu!iat.holonet.net!hofbbs!artie.uberti@network.ucsd.edu

Subject: scanner use in vehicles

To: info-hams@ucsd.edu

AS FAR AS I KNOW, CERTAIN STATES DO NOT PERMIT SCANNERS ABLE TO RECEIVE POLICE AND PUBLIC SAFETY SIGNALS TO BE INSTALLED AS A MOBILE. IN ADDITION, IF YOU ARE A LISENCED HAM AND ARE USING A MOBILE SCANNER YOU ARE EXEMPT FROM THIS RULE IN CERTAIN STATES.

ALSO, IT IS AGAINST THE LAW IF YOU KNOWINGLY, ACT OR COMMIT A CRIME USING A SCANNER TO OBTAIN INFORMATION WHERE THE POLICE ARE DURING THE COMMISSION OF A CRIME, YOU CAN BE CHARGE WITH AN ADDITIONAL OFFENSE AS SUCH.

-----  
Date: 20 Dec 1993 02:29:28 GMT  
From: sdd.hp.com!nigel.msen.com!usenet.ins.cwru.edu!gatech!udel!  
news.sprintlink.net!clark.net!andy@network.ucsd.edu  
Subject: Tokyo Hy-Power's 3-band SSB/CW Handheld  
To: info-hams@ucsd.edu

Intrigued by above item. Anyone have one or seen one in action?

-k4adl

-----  
Date: Sun, 19 DEC 93 10:43:10 EST  
From: mvb.saic.com!unogate!news.service.uci.edu!usc!yeshua.marcam.com!  
news.kei.com!bloom-beacon.mit.edu!noc.near.net!news.delphi.com!  
usenet@network.ucsd.edu  
Subject: what was the telnet address for the ham/call database??  
To: info-hams@ucsd.edu

callsign.cs.buffalo.edu 2000 or 128.205.32.2 2000

-----  
Date: Mon, 20 Dec 1993 16:23:57 GMT  
From: news.cstar.andersen.com!news.acns.nwu.edu!news.eecs.nwu.edu!gagme!n5ial!  
jim@uunet.uu.net  
To: info-hams@ucsd.edu

References <2er4on\$f1b@wuecl.wustl.edu>, <CI6MLC.Iqo@world.std.com>,  
<2esi38\$h6k@crchh941.bnr.ca>nwu.  
Subject : Re: Where are all the young enthusiasts?

[ Note: original article reformatted to < 80 chars/line.... ]

In article <2esi38\$h6k@crchh941.bnr.ca> kharker@bnr.ca (Kenneth E. Harker)  
writes:

> In fact, I can't imagine when, in the next five years or so, that I'll be  
> able to get my own real HF rig. It's just way too expensive.  
[ .... ]  
> Now, sure, someone can say that you can get on the air for <\$100. But  
> what does that get you? A QRP CW-only kit with a homebrew antenna and a  
> straight key. While I am looking into this option as the only conceivable  
> way I'll have my own HF rig before 1998, this is not going to attract

> young people to the hobby. And I have plenty of friends at school who  
> have trouble deciding if they can afford certain textbooks, much less  
> anything like radio.

As at least one other person has said, you don't have to go out and buy the most expensive HF rig you see. :-) In fact, there's nothing that says you even have to buy a brand-new rig. My first HF rig was an old Galaxy V Mk 3. Here's the story.....

I was home for vacation (Christmas break, in fact) from school, and one of the local hams (this was in San Antonio) heard that I was looking to upgrade to general (I was a tech), but that I didn't have an HF rig. He found out about this because I asked about details on where to either get a very inexpensive rig or get help building one. He wasn't too happy about the fact that I didn't have a rig, so he set out to ``solve'' this ``problem''. :-) Within 10 minutes, he'd found two people willing to donate gear. The first person who responded said he had an old military receiver that would at least get me started. The second person said that was nice, but he had an old Galaxy V that he'd sell to me for 25 cents.

So I ``bought'' a Galaxy V Mk 3 for 25 cents (he could then tell his wife, ``yes, dear, I \*SOLD\* it!'' ). The only condition on that sale was that when I was done with the rig, I either return it to him, or preferably, pass it on to another new ham. You guessed it...I ``sold'' it for 25 cents. :-) And, of course, the same conditions applied there, too---he's going to eventually ``sell'' it...for 25 cents.

Now, this may sound like an extreme example, but there are lots of old tube rigs out there, many of which are in pretty good shape. In fact, there are some tube rigs that I wouldn't mind having right now. I have a Kenwood TS-140S---it's a good rig, but somehow the old Collins and Drake rigs I remember using just, well, out-did it...don't ask me to explain it, because I can't. The same could be said for an old Heathkit HW-101 that I played with at one point (a friend from school and I made a temporary trade just to try the other's rig out...the day I had to give that HW-101 back was a dismal day). It was as stable as any synth rig I've seen, and the audio quality, both xmit and rcv, was out of this world. I don't know if this applies to all of the 101s, but it certainly did for that one!

Look around. ASK AROUND! Let people know that you're looking for a rig that fits in with a college student's budget (i.e., it's virtually free), and that you just want to get on the air. Someone should be able to help you out.

Oh, one last point. Don't expect to get all sorts of fancy filtering from an old, inexpensive tube rig. Don't worry about it, either. First, your ears will develop to the point where you'll be able to pick out even the

weakest sigs from the noise (I got really good at this, and when I'd go to the Texas A&M club station, W5AC, I'd easily work people who others in the shack couldn't even hear at all, even with all of the fancy filtering on the TS-930 that was there at the time). Second, you can always build your own filters and add them as outboard units. Op amps are dirt-cheap, and a +12/-12 VDC power supply isn't \*THAT\* expensive to build, either.... Just be careful about the voltage levels going to the (external) speaker on the tube rigs---you may need to add some level conversions (I did with the Galaxy).

Later,  
--jim

```
--
#include <std_disclaimer.h>                                73 DE N5IAL (/4)
-----< Running Linux 0.99 PL10 >-----
Internet: jim@n5ial.mythical.com | j.graham@ieee.org      ICBM: 30.23N 86.32W
Amateur Radio: (packet station temporarily offline)      AMTOR SELCAL: NIAL
-----
E-mail me for information about KAMterm (host mode for Kantronics TNCs).
```

-----  
Date: Mon, 20 Dec 1993 16:41:30 GMT  
From: news.cstar.andersen.com!news.acns.nwu.edu!news.eecs.nwu.edu!gagme!n5ial!  
jim@uunet.uu.net  
To: info-hams@ucsd.edu

References <drew.95.0@trl.oz.au>, <SDS.93Dec17000051@cslab9f.cs.brown.edu>,  
<2es5k1\$ldr@cismsun.univ-lyon1.fr>ews.a  
Subject : Re: Where are all the young enthusiasts?

Sorry if this is a bit terse---there's a thunderstorm on its way, and here on the island, we have power failures every time the wind blows...not to mention thunderstorms. I've got to be shutdown when the power starts to fluctuate..... (No, I can't afford a UPS yet, even at \$100 US.)

In article <2es5k1\$ldr@cismsun.univ-lyon1.fr> elendir@enst.fr () writes:  
>Scott Swanson (sds@cs.brown.edu) wrote:

>: I'm 20. Is that young enough to fit in with the "young enthusiast"  
> And I am 24.

I'm 27 (almost 28)...guess I'm the OF here. :-)

>: So why did I pick up my ticket? What's in it for me, especially since  
>...

>: (1) Emergency service. Maybe I'm weird, but I \*like\* public service,

>  
> I don't think it's a weird feeling at all.

Nor do I.

> The sole problem I encounter here is the cost of the hobby. HF rigs are  
> still very expensive, unless you make your owns.

See my previous post (just a few minutes ago).

> There is a whole new  
> world to explore above the GHz limit, new antennae to design, new devices  
> to use, and that bandwidth... Traditionnal HF is technically dead (more or  
> less, everything is known)

HF is *\*NOT\** dead as far as new technology is concerned. The directions have just changed a bit, that's all. If you look at the world of small (i.e., apartment-sized) antennas, for example, you'll see that there's a lot of room for experimenting. If you want more meaty experiments, look at the newer digital modes: clover, PacTOR, etc..... Ok, what about designing HF rigs themselves? There are all kinds of new things that can be done with filtering, for example (DSP being the new world to play with).

Ok, granted, some (much) of this is out of the budget range of your average person, but there are other areas that I've left out in my quest to have this system shutdown while the thunderstorm is still a couple of miles away. Oops...time's up.

Later,  
--jim

--  
#include <std\_disclaimer.h> 73 DE N5IAL (/4)  
-----< Running Linux 0.99 PL10 >-----  
Internet: jim@n5ial.mythical.com | j.graham@ieee.org ICBM: 30.23N 86.32W  
Amateur Radio: (packet station temporarily offline) AMTOR SELCAL: NIAL  
-----  
E-mail me for information about KAMterm (host mode for Kantronics TNCs).

-----  
End of Info-Hams Digest V93 #1490

\*\*\*\*\*  
\*\*\*\*\*